



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 8, 2017

Nathan P. Ehresman
Sr. Regulatory Specialist
Nufarm Americas Inc.-AGT Division
c/o Nufarm Americas Inc
4020 Aerial Center Parkway, Ste 101
Morrisville, NC 27560

Subject: Label Amendment – Adding tank mix rate to seed piece potato treatment
Product Name: ST-Methyl 540 FS
EPA Registration Number: 55146-127
Application Date: 3/1/2017
Decision Number: 527057

Dear Nathan P. Ehresman:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at mellor.nathan@epa.gov.



Shaja B. Joyner, Product Manager 20
Fungicide-Herbicide Branch
Registration Division 7505P

Enclosure

ACCEPTED

05/08/2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 55146-127

ST-METHYL 540 FS

Seed Treatment Fungicide

ACTIVE INGREDIENT:

Thiophanate-methyl (Dimethyl [(1,2-phenylene)bis-(iminocarbonothioyl)]bis[Carbamate])* 46.2%

OTHER INGREDIENTS:..... 53.8%

TOTAL:..... 100.0%

*Also known as Dimethyl 4,4'-o-phenylenebis[3-thioallophanate]
Contains 4.5 pounds thiophanate-methyl per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCION

See inside label booklet for **FIRST AID** and **PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call **CHEMTREC (800) 424-9300**
For Medical Emergencies Only, Call **(877) 325-1840**

EPA REG. NO. 55146-127
EPA EST. NO. _____

MANUFACTURED FOR
NUFARM AMERICAS INC.
AGT DIVISION
150 HARVESTER DRIVE
BURR RIDGE, IL 60527



Net Contents: _____ gallons (_____ liters)

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION / PRECAUCION**

Causes moderate eye irritation. Harmful if swallowed or inhaled. Harmful if absorbed through skin. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, and viton ≥ 14 mils.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand held equipment, and
- Chemical-resistant apron for mixers, loaders and other handlers exposed to the concentrate.

Note: Persons involved in bagging treated seed, sewing or moving bags of treated seed, or cleaning up bagging areas or seed treatment equipment are pesticide handlers and must wear the PPE required on this label for pesticide handlers.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
<p>Users should:</p> <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water by disposing of equipment washwater or rinsate.

PHYSICAL AND CHEMICAL HAZARDS

DO NOT use or store near oxidizing agents.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

For use by commercial seed treaters only in liquid or slurry treaters. Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.

Mix thoroughly before use or use entire container at one time.

TANK MIXTURES: All tank mixes should be pre-tested prior to use to determine physical compatibility between formulations. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

NOTE: The purchaser of this product is responsible for ensuring that all seed treated with this product is adequately dyed with a suitable colorant to prevent its accidental use as food for man or feed for animals. Refer to 21 CFR, Part 2.25. Any dye or colorant added to treated seed must be cleared for use under 40 CFR, Part 180.900. Federal regulations have established official tolerances for certain pesticide residues. In order that residues on food and forage crops will not exceed established tolerances, use only at specified rates.

Treated seed must not be used for or mixed with food or animal feed or processed for oil. Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act.

SEED LABELING

THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEED BE LABELED WITH THE FOLLOWING INFORMATION:

*"This seed has been treated with ST-METHYL 540 FS (thiophanate-methyl) seed treatment. **DO NOT** use for food, feed, or oil processing. Store away from feeds and other foodstuffs."*

LABELS FOR COMMERCIALY TREATED SEED MUST INCLUDE THE FOLLOWING ADDITION TO THE ENVIRONMENTAL HAZARDS STATEMENTS:

*"Exposed treated seed may be hazardous to birds and wildlife. Dispose of all excess treated seed and seed packaging or containers by burial away from bodies of water in accordance with any local requirements. Cover, incorporate, or collect treated seeds spilled during loading and planting. **DO NOT** contaminate bodies of water when disposing of planting equipment wash water."*

THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS CONTAINING TREATED SEED:

*"**DO NOT** allow children, pets or livestock to have access to treated seeds."*

*"**DO NOT** graze or feed livestock on treated areas for 45 days after planting."*

"Wear long pants, long-sleeved shirt, shoes, socks, and chemical-resistant gloves when opening this bag or loading/pouring the treated seed."

*"After the seeds have been planted, do not enter or allow worker entry into treated areas during the **restricted-entry interval (REI) of 12 hours**. Exception: If the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter*

the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, chemical-resistant gloves made of any waterproof material, and chemical-resistant footwear. “

PRODUCT INFORMATION

Apply as a seed treatment using standard slurry or mist-type seed treatment equipment. Uniform application to seed is necessary to ensure seed safety and best disease protection. Seed must be sound and well cured prior to treatment. Product must be diluted with sufficient water to ensure complete seed coverage. Consult a seed treatment specialist regarding slurry rates for the crop to be treated with this product.

When used in combination with other fungicides having a similar biological spectrum, this product will add to the systemic protection of the seed and seedling and improve control under high disease pressure.

PEANUTS	
DISEASE	RATE (Fl. Oz. / 100 lbs. of Seed)
Seed Decay (such as <i>Aspergillus</i> spp.)	0.14 to 0.28
Seedling Blight (suppression of <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	(0.005 – 0.01 lbs AI)
Seed borne <i>Sclerotinia</i> spp.	0.94 to 1.12 (0.033 – 0.04 lbs AI)

SOYBEANS				
DISEASE	RATE			MG AI / SEED
	Fl. Oz. OF PRODUCT /			
	100 lb seed*	1000 seeds	140,000 seeds	
Seed Decay (such as <i>Phomopsis</i> spp., <i>Fusarium</i> spp.)				
Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	0.14 to 0.28	0.0005 to 0.0010	0.065 to 0.130	0.008 to 0.015
This product contains 15,970 mg ai / fluid ounce.				
* Based on a standard number of 3000 seeds / lb (150,000 seeds / 50 lb bu)				
NOTE: To maintain mg ai / seed, adjust fluid ounces / 100 lb in proportion to the actual seeds / lb compared to the standard number of seeds / lb for that crop; fluid ounces per number of seeds (i.e., 1000, 140,000) does not need to be adjusted. For example if there are 2800 soybean seeds / lb and the targeted rate is 0.0075 mg ai / seed at a non adjusted rate of 0.14 fl. oz / 100 lb. of seed, use: $(2800 \div 3000) \times 0.14 = 0.13$ fl. oz / 100 lb of seed.				

DRY BEANS, SNAP BEANS	
DISEASE	RATE (Fl. Oz. / 100 lbs. of Seed)
Seed Decay (such as <i>Phomopsis</i> spp., <i>Fusarium</i> spp.)	0.14 – 0.28
Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	(0.005 – 0.01 lbs AI)

WHEAT	
DISEASE	RATE (Fl. Oz. / 100 lbs. of Seed)
Seed Decay (such as <i>Fusarium</i> spp.)	0.14 to 0.28
Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	(0.005 – 0.01 lbs AI)

POTATO SEED-PIECE TREATMENT

Use ST-METHYL 540 FS to suppress potato seed-piece diseases cause by *Fusarium* (dry rot), *Rhizoctonia* (black scurf and stem canker), and *Helminthosporium solani* (silver scurf). ST-Methyl 540 FS is not effective against systemic seed-piece infections or airborne (secondary) inoculum. Ensure that cut seed-pieces are thoroughly coated with ST-Methyl 540 FS at the rate specified below. Thoroughly clean and sanitize cutting machines, knives, trays, tables, barrels, equipment, trucks and planters before cutting and planting seed-pieces. Consult your local extension specialist for detailed information about Silver Scurf treatments in your area.

POTATOES	
DISEASE	RATE (Fl. Oz./100 lbs. of Seed-Pieces)
Dry Rot (<i>Fusarium</i> spp.) Black Scurf and Stem Canker (<i>Rhizoctonia solani</i>) Silver Scurf (<i>Helminthosporium solani</i>)	0.5 to 0.7 (0.018 – 0.025 lbs AI)
	0.35* (0.012 lbs AI)
	tank mix rate
<p>* Use ST-METHYL 540 FS at the tank mix rate when potato seed pieces are treated with additional fungicide(s) products labeled for seed piece treatment to control the above diseases.</p>	
<p>NOTE: For improved protection against the listed diseases that originate from surface infestations of potato seed-pieces apply this product in combination with a product that is active on the targeted disease(s) and use a treatment following application to absorb liquid from the seed-piece. This product will not provide consistent control when used alone and is not active on existing systemic infections.</p>	

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store in original container in a dry, temperature controlled, secure place.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

[[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type / size."]

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Nonrefillable containers larger than 5 gallons]

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Refillable containers]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to point of sale for reconditioning, recycling, or disposal.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

(RV042817)

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LABEL HISTORY

FILE NAME	REVISION MARK	COMMENT
055146-00xxx.20120830.ST-Methyl_540_FS_DRAFT	RV083012	DRAFT SECTION 3 LABEL
055146-00RET.20130114.ST-Methyl_540_FS_DRAFT	RV011413	REVISED SECTION 3 LABEL
055146-00127.20130115.MASTER	RV011513	SECTION 3 APPROVAL
055146-00127.20130429.potato seed-piece_draft	RV042913	ADDITION OF POTATO SEED PIECE TREATMENT
055146-00127.20130909.MASTER	RV090913	SECTION 3 APPROVAL
055146-00127.20170301.MASTER	RV030117	REVISED USE RATES FOR POTATO SEED PIECE TREATMENT
05546-00127.20170428.MASTER	RV042817	REVISIONS MADE AS REQUESTED BY EPA